INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/39355

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : HOIL 21/00; HOIL 21/20 US CL : 438/22,46,47,479,483			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 438/22, 24, 46,47,479,483			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST, INSPEC, CA			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
Y	Craven et al, "Strctural Cahracterzation of nonpolar(11-20) a-plane GaN Thin Films Grown on (1 -102) r-plane sapphire, Applied Physics Letters, Vol. 81, Number 3 15 JULY 2002(15. 07.12002)		1-12
T, A	US 2004/0108513 A(NARUKAWA et al) 10 JUNE 2004(10.06.2004), see Backgroun Invention		1-12
A			1, 11
Y US 2002/0098641 A (TSUDA et al)25 JULY 2002(2		25.07.2002) see abstract and	1-12
. Y	2001/0029086 A (OGAWA et al) 11 OCTOBER 200 0182	01(11.10.2001) See absatrct paragraph	1-11
Further	r documents are listed in the continuation of Box C.	See patent family annex.	
Special categories of cited documents:		"T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"A" document defining the general state of the art which is not considered to be of particular relevance			
"E" earlier application or patent published on or after the international filing date		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination	
"O" document referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the art	
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family	
Date of the actual completion of the international search Date		Date of mailing of the international search report	
28 June 2004 (28.06.2004)		29 SEP 2004	
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Authorized officer Savitri Mulpuri	
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